Steward Pickett

List of Publications by Year
in descending order

101	12,720	38742 50	60623 81
papers	citations	h-index	g-index

105	105	105	9508
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Urban Ecological Systems: Linking Terrestrial Ecological, Physical, and Socioeconomic Components of Metropolitan Areas. Annual Review of Ecology, Evolution, and Systematics, 2001, 32, 127-157.	6.7	1,136
2	Ecosystem Structure and Function along Urban-Rural Gradients: An Unexploited Opportunity for Ecology. Ecology, 1990, 71, 1232-1237.	3.2	877
3	Integrated Approaches to Long-TermStudies of Urban Ecological Systems. BioScience, 2000, 50, 571.	4.9	868
4	Urban ecological systems: Scientific foundations and a decade of progress. Journal of Environmental Management, 2011, 92, 331-362.	7.8	772
5	Advancing Urban Ecology toward a Science of Cities. BioScience, 2016, 66, 198-212.	4.9	491
6	Ecosystem processes along an urban-to-rural gradient. Urban Ecosystems, 1997, 1, 21-36.	2.4	444
7	Spatial heterogeneity in urban ecosystems: reconceptualizing land cover and a framework for classification. Frontiers in Ecology and the Environment, 2007, 5, 80-88.	4.0	439
8	The Ecological Concept of Disturbance and Its Expression at Various Hierarchical Levels. Oikos, 1989, 54, 129.	2.7	413
9	A Framework for a Theory of Ecological Boundaries. BioScience, 2003, 53, 750.	4.9	325
10	Characterization of Households and its Implications for the Vegetation of Urban Ecosystems. Ecosystems, 2006, 9, 578-597.	3.4	321
11	A conceptual framework for the study of human ecosystems in urban areas. Urban Ecosystems, 1997, 1, 185-199.	2.4	310
12	Beyond Urban Legends: An Emerging Framework of Urban Ecology, as Illustrated by the Baltimore Ecosystem Study. BioScience, 2008, 58, 139-150.	4.9	288
13	Predicting Opportunities for Greening and Patterns of Vegetation on Private Urban Lands. Environmental Management, 2007, 40, 394-412.	2.7	244
14	The Ecosystem as a Multidimensional Concept: Meaning, Model, and Metaphor. Ecosystems, 2002, 5, 1-10.	3.4	229
15	Understanding an urbanizing planet: Strategic directions for remote sensing. Remote Sensing of Environment, 2019, 228, 164-182.	11.0	227
16	The New Paradigm in Ecology: Implications for Conservation Biology Above the Species Level. , 1992, , 65-88.		224
17	An Ecology for Cities: A Transformational Nexus of Design and Ecology to Advance Climate Change Resilience and Urban Sustainability. Sustainability, 2015, 7, 3774-3791.	3.2	208
18	Advancing urban sustainability theory and action: Challenges and opportunities. Landscape and Urban Planning, 2014, 125, 320-328.	7.5	193

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19	Evolution and future of urban ecological science: ecology in, of, and for the city. Ecosystem Health and Sustainability, 2016, 2, .	3.1	177
20	Designed experiments: new approaches to studying urban ecosystems. Frontiers in Ecology and the Environment, 2005, 3, 549-556.	4.0	158
21	Earth Stewardship: science for action to sustain the human-earth system. Ecosphere, 2011, 2, art89.	2.2	154
22	Dynamic heterogeneity: a framework to promote ecological integration and hypothesis generation in urban systems. Urban Ecosystems, 2017, 20, 1-14.	2.4	140
23	THE APPLICATION OF ECOLOGICAL PRINCIPLES TO URBAN AND URBANIZING LANDSCAPES. , 2000, 10, 685-688.		137
24	Shifting concepts of urban spatial heterogeneity and their implications for sustainability. Landscape Ecology, 2017, 32, 15-30.	4.2	128
25	CH4 uptake and N availability in forest soils along an urban to rural gradient. Soil Biology and Biochemistry, 1995, 27, 281-286.	8.8	125
26	Altered resources, disturbance, and heterogeneity: A framework for comparing urban and non-urban soils. Urban Ecosystems, 2009, 12, 23-44.	2.4	125
27	The New Global Urban Realm: Complex, Connected, Diffuse, and Diverse Social-Ecological Systems. Sustainability, 2015, 7, 5211-5240.	3.2	124
28	Forest-Landscape Structure along an Urban-To-Rural Gradient*. Professional Geographer, 1995, 47, 159-168.	1.8	121
29	Ecological resilience and resilient cities. Building Research and Information, 2014, 42, 143-157.	3.9	119
30	Ecosystem Management in the Context of Large, Infrequent Disturbances. Ecosystems, 1998, 1, 546-557.	3.4	115
31	Adopting a modern ecological view of the metropolitan landscape: the case of a greenspace system for the New York City region. Landscape and Urban Planning, 1998, 39, 295-308.	7.5	114
32	Data and Methods Comparing Social Structure and Vegetation Structure of Urban Neighborhoods in Baltimore, Maryland. Society and Natural Resources, 2006, 19, 117-136.	1.9	113
33	Interdisciplinary Research: Maintaining the Constructive Impulse in a Culture of Criticism. Ecosystems, 1999, 2, 302-307.	3.4	111
34	Cross-system comparisons elucidate disturbance complexities and generalities. Ecosphere, 2011, 2, art81.	2.2	107
35	The Legacy Effect: Understanding How Segregation and Environmental Injustice Unfold over Time in Baltimore. Annals of the American Association of Geographers, 2018, 108, 524-537.	2.2	106
36	Residential housing segregation and urban tree canopy in 37 US Cities. Npj Urban Sustainability, 2021, 1, .	8.0	104

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37	The effects of the urban built environment on the spatial distribution of lead inÂresidential soils. Environmental Pollution, 2012, 163, 32-39.	7.5	103
38	Quantifying spatiotemporal pattern of urban greenspace: new insights from high resolution data. Landscape Ecology, 2015, 30, 1165-1173.	4.2	99
39	Does the ecological concept of disturbance have utility in urban socialâ€“ecologicalâ€“technological systems?. Ecosystem Health and Sustainability, 2017, 3, .	3.1	98
40	The rapid but â€œinvisibleâ€•changes in urban greenspace: A comparative study of nine Chinese cities. Science of the Total Environment, 2018, 627, 1572-1584.	8.0	97
41	Urban Principles for Ecological Landscape Design and Management: Scientific Fundamentals. Cities and the Environment, 2008, 1, 1-16.	0.4	88
42	Urban ecosystems: What would Tansley do?. Urban Ecosystems, 2009, 12, 1-8.	2.4	81
43	The Application of the Ecological Gradient Paradigm to the Study of Urban Effects. , 1993, , 175-189.		80
44	The Self-Identity of Ecological Units. Oikos, 1998, 82, 253.	2.7	66
45	90Âyears of forest cover change in an urbanizing watershed: spatial and temporal dynamics. Landscape Ecology, 2011, 26, 645-659.	4.2	66
46	Integrated urban ecosystem research. Urban Ecosystems, 1997, 1, 183-184.	2.4	65
47	Urban ecology in a developing world: why advanced socioecological theory needs Africa. Frontiers in Ecology and the Environment, 2013, 11, 556-564.	4.0	63
48	Moving Towards a New Urban Systems Science. Ecosystems, 2017, 20, 38-43.	3.4	63
49	Beyond city expansion: multi-scale environmental impacts of urban megaregion formation in China. National Science Review, 2022, 9, nwab107.	9.5	62
50	Urban mapping needs up-to-date approaches to provide diverse perspectives of current urbanization: A novel attempt to map urban areas with nighttime light data. Landscape and Urban Planning, 2020, 195, 103709.	7.5	58
51	Biodiversity and Community Composition in Urban Ecosystems: Coupled Human, Spatial, and Metacommunity Processes. , 2011, , 179-186.		58
52	Quantifying Spatial Heterogeneity in Urban Landscapes: Integrating Visual Interpretation and Object-Based Classification. Remote Sensing, 2014, 6, 3369-3386.	4.0	56
53	Exchanges across Landâ€Waterâ€Scape Boundaries in Urban Systems. Annals of the New York Academy of Sciences, 2008, 1134, 213-232.	3.8	52
54	Diatoms are better indicators of urban stream conditions: A case study in Beijing, China. Ecological Indicators, 2016, 60, 265-274.	6.3	52

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55	Social-ecological science in the humane metropolis. Urban Ecosystems, 2011, 14, 319-339.	2.4	50
56	Nitrate production and availability in residential soils. , 2011, 21, 2357-2366.		48
57	Global urbanization as a shifting context for applying ecological science toward the sustainable city. Ecosystem Health and Sustainability, 2015, 1, 1-15.	3.1	47
58	Integrative approaches to investigating human-natural systems: the Baltimore ecosystem study. Natures Sciences Societes, 2006, 14, 4-14.	0.4	47
59	Conceptual frameworks facilitate integration for transdisciplinary urban science. Npj Urban Sustainability, 2021, 1, .	8.0	45
60	Spatial-Temporal Variations of Water Quality and Its Relationship to Land Use and Land Cover in Beijing, China. International Journal of Environmental Research and Public Health, 2016, 13, 449.	2.6	44
61	Ecological Heterogeneity in Urban Ecosystems: Reconceptualized Land Cover Models as a Bridge to Urban Design. Future City, 2013, , 107-129.	0.5	43
62	Plants in the city: understanding recruitment dynamics in urban landscapes. Frontiers in Ecology and the Environment, 2019, 17, 455-463.	4.0	43
63	Urban tree canopy has greater cooling effects in socially vulnerable communities in the US. One Earth, 2021, 4, 1764-1775.	6.8	42
64	The Metacity: A Conceptual Framework for Integrating Ecology and Urban Design. Challenges, 2011, 2, 55-72.	1.7	41
65	Ecological Understanding and the Public. , 2007, , 187-206.		40
66	Long-Term Ecological Research and Evolving Frameworks of Disturbance Ecology. BioScience, 2020, 70, 141-156.	4.9	37
67	Is initial postâ€disturbance regeneration indicative of longerâ€term trajectories?. Ecosphere, 2017, 8, e01924.	2.2	36
68	The smart growth of Chinese cities: Opportunities offered by vacant land. Land Degradation and Development, 2018, 29, 3512-3520.	3.9	31
69	Stewardship of the Biosphere in the Urban Era. , 2013, , 719-746.		31
70	From feedbacks to coproduction: toward an integrated conceptual framework for urban ecosystems. Urban Ecosystems, 2019, 22, 65-76.	2.4	30
71	Biodiversity on the Urban Landscape. Ecological Studies, 2011, , 75-101.	1.2	26
72	Socioecological revitalization of an urban watershed. Frontiers in Ecology and the Environment, 2013, 11, 28-36.	4.0	26

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73	Demystifying governance and its role for transitions in urban socialâ€“ecological systems. Ecosphere, 2016, 7, e01564.	2.2	22
74	Democratization of ecosystem servicesâ€”a radical approach for assessing natureâ€™s benefits in the face of urbanization. Ecosystem Health and Sustainability, 2018, 4, 115-131.	3.1	22
75	Integrating structure and function: mapping the hierarchical spatial heterogeneity of urban landscapes. Ecological Processes, 2020, 9, .	3.9	21
76	From transdisciplinary projects to platforms: expanding capacity and impact of land systems knowledge and decision making. Current Opinion in Environmental Sustainability, 2019, 38, 7-13.	6.3	20
77	Theoretical Perspectives of the Baltimore Ecosystem Study: Conceptual Evolution in a Socialâ€“Ecological Research Project. BioScience, 2020, 70, 297-314.	4.9	20
78	The Culture of Synthesis: Habits of Mind in Novel Ecological Integration. Oikos, 1999, 87, 479.	2.7	19
79	Invitation to Earth Stewardship. Frontiers in Ecology and the Environment, 2013, 11, 339-339.	4.0	19
80	Watersheds in Baltimore, Maryland: Understanding and Application of Integrated Ecological and Social Processes. Journal of Contemporary Water Research and Education, 2007, 136, 44-55.	0.7	18
81	How many principles of urban ecology are there?. Landscape Ecology, 2017, 32, 699-705.	4.2	18
82	Three Tides: The Development and State of the Art of Urban Ecological Science. Future City, 2013, , 29-46.	0.5	17
83	Reconceptualizing Land for Sustainable Urbanity. , 2014, , 313-330.		17
84	Forest ethnography: An approach to study the environmental history and political ecology of urban forests. Urban Ecosystems, 2019, 22, 49-63.	2.4	16
85	Risks and Causes of Population Exposure to Cumulative Fine Particulate (PM2.5) Pollution in China. Earth's Future, 2019, 7, 615-622.	6.3	16
86	The Ecology of the Metacity: Shaping the Dynamic, Patchy, Networked, and Adaptive Cities of the Future. Future City, 2013, , 463-489.	0.5	12
87	A framework for research on recurrent acute disasters. Science Advances, 2022, 8, eabk2458.	10.3	11
88	Coproduction of place and knowledge for ecology with the city. Urban Ecosystems, 2022, 25, 765-771.	2.4	10
89	Building an Urban LTSER: The Case of the Baltimore Ecosystem Study and the D.C./B.C. ULTRA-Ex Project. , 2013, , 369-408.		5
90	The Ontogeny of Theory. , 2007, , 97-115.		5

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91	Importance of Integrated Approaches and Perspectives. , 0, , 258-273.		4
92	Ecology and Environmental Justice: Understanding Disturbance Using Ecological Theory. , 2013, , 27-47.		3
93	Ecosystems in a Heterogeneous World. , 2013, , 191-213.		3
94	Urban Ecology. , 2013, , 273-301.		2
95	The Anatomy of Theory. , 2007, , 61-96.		2
96	Principles of Urban Ecological Science:. , 2019, , 251-286.		2
97	Ecosystems in a Heterogeneous World. , 2021, , 227-248.		1
98	Evolution of Social-Ecological Research in the LTER Network and the Baltimore Ecosystem Study. Archimedes, 2021, , 279-314.	0.3	1
99	Systems in Flames: Dynamic Coproduction of Socialâ€“Ecological Processes. BioScience, 0, , .	4.9	1
100	Ecosystem Function. Encyclopedia of the UN Sustainable Development Goals, 2020, , 1-8.	0.1	0
101	Ecosystem Function. Encyclopedia of the UN Sustainable Development Goals, 2021, , 282-289.	0.1	0